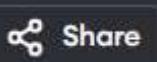


main.java

```
1 //1. Develop a Java program to take user input for name and age and
   display a
2
3 import java.util.Scanner;
4 public class main {
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7         System.out.print("Enter your name: ");
8         String name = scanner.nextLine();
9         System.out.print("Enter your age: ");
10        int age = scanner.nextInt();
11        scanner.nextLine();
12        System.out.println("Welcome " + name + "!");
13        System.out.println("You are " + age + " years old.");
14        scanner.close();
15    }
16 }
17
```



Run

Output

Enter your name: rounakwanjari

Enter your age: 20

Welcome rounakwanjari!

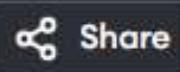
You are 20 years old.

==== Code Execution Successful ===





LargestSmallest.java



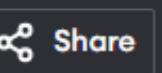
Run

Output

```
1 //11. Write a Java program to find the largest and smallest number in an
   array.
2
3 public class LargestSmallest {
4     public static void main(String[] args) {
5         int[] arr = {12, 34, 5, 89, 23, 56};
6         int largest = arr[0];
7         int smallest = arr[0];
8         for (int num : arr) {
9             if (num > largest) {
10                 largest = num;
11             }
12             if (num < smallest) {
13                 smallest = num;
14             }
15         }
16         System.out.println("Largest number: " + largest);
17         System.out.println("Smallest number: " + smallest);
18     }
19 }
20 }
```

Largest number: 89
Smallest number: 5

--- Code Execution Success

BubbleSort.java**Run****Output**

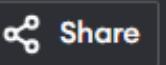
```
1 //12. Develop a program to sort an array using bubble sort algorithm.  
2  
3 public class BubbleSort {  
4     public static void main(String[] args) {  
5         int[] arr = {64, 25, 12, 22, 11};  
6         for (int i = 0; i < arr.length - 1; i++) {  
7             for (int j = 0; j < arr.length - i - 1; j++) {  
8                 if (arr[j] > arr[j + 1]) {  
9  
10                     int temp = arr[j];  
11                     arr[j] = arr[j + 1];  
12                     arr[j + 1] = temp;  
13                 }  
14             }  
15         }  
16         System.out.print("Sorted array: ");  
17         for (int num : arr) {  
18             System.out.print(num + " ");  
19         }  
20     }  
21 }  
22
```

Sorted array: 11 12 22 25 64
==== Code Execution Successful ===



FahrenheitToCelsius.java

```
1 //3. Create a program to convert temperature from Fahrenheit to Celsius
2
3 import java.util.Scanner
4 public class FahrenheitToCelsius {
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7         System.out.print("Enter temperature in Fahrenheit: ");
8         double fahrenheit = scanner.nextDouble();
9         double celsius = (fahrenheit - 32) * 5 / 9;
10        System.out.println("Temperature in Celsius: " + celsius);
11        scanner.close();
12    }
13 }
14
```



Run

Output

```
Enter temperature in Fahrenheit: 144
Temperature in Celsius: 62.22222222222222
```

```
==== Code Execution Successful ===
```



Main.java



Share

Run

Output

```
1 //4. Design a Java application to calculate simple interest using the
   formula: SI = (P ×
2
3
4
5 import java.util.Scanner;
6 public class task_4{
7     public static void main(String[] args) {
8         Scanner scanner = new Scanner(System.in);
9         System.out.print("Enter the principal amount (P): ");
10        double principal = scanner.nextDouble();
11        System.out.print("Enter the rate of interest (R): ");
12        double rate = scanner.nextDouble();
13        System.out.print("Enter the time period (T) in years: ");
14        double time = scanner.nextDouble();
15        double simpleInterest = (principal * rate * time) / 100;
16        System.out.println("Simple Interest (SI): " + simpleInterest);
17        scanner.close();
18    }
19 }
```

Enter the principal amount (P): 1000
Enter the rate of interest (R): 4
Enter the time period (T) in years: 1
Simple Interest (SI): 40.0
==== Code Execution Successful ===